

12/05/01



Case No. 72165

DIRECTOR, U.S. PATENT AND TRADEMARK  
OFFICE  
WASHINGTON, DC 20231

I HEREBY CERTIFY THIS PAPER OR FEE IS BEING  
DEPOSITED WITH THE U.S. POSTAL SERVICE  
"EXPRESS MAIL POST OFFICE TO ADDRESSEE"  
SERVICE UNDER 37 CFR 1.10 ON THE DATE  
INDICATED BELOW AND IS ADDRESSED TO: BOX  
PATENT APPLICATIONS, ASSISTANT  
COMMISSIONER FOR PATENTS, PO BOX 2327,  
ARLINGTON, VA 22202

Transmitted herewith for filing is the patent  
application of:

EXPRESS MAIL NO.: EL 846882224 US

DATE OF DEPOSIT: December 5, 2001

NAME: JoEllen Murphy

SIGNATURE: *JoEllen Murphy*

31040 U.S. PTO  
10/005441  
12/05/01

Inventor: **Martin GARZA, Joe LUNA, Mark Jefferies OGDEN, James Ernest OWEN,  
James Denson WILSON, Jr.**

For: **INJECTION OF SELECTED NUMBERS OF ERRORS IN RETURNED LOOPBACK DATA  
TO PROVIDE GRAY-SCALE TYPE QUANTIFICATION OF LOOP PERFORMANCE  
MEASUREMENTS**

**Please note the following:**

- ☒ Patent Application: 15 pages, 12 claims.  
5 sheets of drawings.  
The suggested drawing figure to be published is FIG. 1  
☒ A declaration and power of attorney.  
☒ Citation Under 37 CFR 1.97 and PTO-1449.  
☒ Applicant qualifies as a small entity under 37 CFR § 1.27.  
Assignee info:  
Name: Adtran, Inc.  
Address: 901 Explorer Blvd., PO Box 140000, Huntsville, AL 35814  
State of Incorporation: Delaware  
[ ] Applicant claims priority benefit to the following foreign application(s):  
Country: \*\*\*\*\*  
Application No.: \*\*\*\*\*  
Filing Date: \*\*\*\*\*  
[ ] Applicant claims priority benefit to the following U.S. application(s):  
Application No.: \*\*\*\*\*  
Filing Date: \*\*\*\*\*

The filing fee has been calculated as shown below:

	(Col. 1)		(Col. 2)		SMALL ENTITY			LARGE ENTITY	
FOR:	# FILED		# EXTRA		RATE	FEE		RATE	FEE
BASIC FEE						\$ 355	<u>OR</u>		\$ 740
TOTAL CLAIMS	12	-20	0		X 9	\$	<u>OR</u>	X 18	\$
INDEP CLAIMS	2	- 3	0		X 40	\$	<u>OR</u>	X 80	\$
* If the difference in Col. 1 is less than "0", enter "0" in Col. 2.					TOTAL	\$ ***		TOTAL	\$ 740

- ☒ Authorization is given to charge the Filing Fee in the amount of **\$ 740.00** to Deposit Account 01-0484.
- ☒ Authorization is given to charge the Assignment Recordal Fee in the amount of **\$40.00** to Deposit Account: 01-0484.
- ☒ The Commissioner is authorized to charge or credit any discrepancies in fee amounts to Deposit Account No. 01-0484.
- ☒ **PLEASE ADDRESS ALL CORRESPONDENCE TO ATTORNEY OF RECORD:**  
**CHRISTOPHER F. REGAN**
- ☒ Please associate this application with Customer No. 27975.

PATENT TRADEMARK OFFICE  
*Charles E. Wands*  
CHARLES E. WANDS  
Reg. No. 25,649

December 5, 2001